

W001

THE LUBRIZOL CORPORATION
INQUIRY SCREEN
BLEND REQ 3T/MATERIAL DEFINITION02/03/05
14:47:41

Material Name S010-0120-99-486,

OS Number . . OS165805

Enterer . .	KEO	Entry Date	[REDACTED]	Record Type	S
Requestor. .	VACA	Calc Unit. .	W	CM Type . . .	BL
Priority . .	E	Blend Amount	1216792 G		
Need By Date	[REDACTED]	Amt to Stock	1030500 G	Picklist Stat	PICK
Project . .	T990120	Market Class	C	Blender	AMS
Subset . . .		QA Approved		Blend Date	[REDACTED]
CMA#	Y	Maj/Min Mods	04 A	RM-0120990486-A-1	
Invent Date	[REDACTED]	Inventor . .	VACA	Invent Dept	5210 WKF
Perf Grade					
Visgrade . .	10W-30	Visgr Source	SAE		
Waste Track	R	NSW	7	Release Flag	N

LZ Product

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(A)

LEF 1

(A)

	LEF 1	
Conc S010-0120-99-	485	
Blend S010-0120-99-	486	
265-x6705 7cSt UCBO 200N	95	
265-x6722 4cSt UCBO 100N-x6822	5	
S000-0582-99-847		
7075F	3.5	
6662A	0.3	
	7.2	Succinimide dispersant, 50% oil 1.16%N
	0.5	Zinc dialkylthiophosphate, 9% oil
ABE(738-66853) 98.5% pure	1.3	
Tricyclohexyl borate (738-66854,A)		
LA-2607 (S010-0357-00-614)	4.8	Overbased Mg saligenin detergent, 50% oil
	2	Overbased Ca salicylate detergent, 40% oil
(280 TBN)		
	4	Hindered phenolic ester antioxidant
	1.5	Amine antioxidant
	0.6	Sulfurized 4-carboxybutoxycyclohexene
	0.01	Commercial anti-foam agent
Treat	21.9	
D2270: vis @ 40	71.1	
vis @ 100 (9.3-12.5)	11.18	
VI	149	
D5293@-20°C (<3500)	3048	
D5293@-25°C (<7000)	5147	
D4683 HTHS	3.46	
D4684 @ -30°C (<60000)	21200	
<u>#1270B</u>		
B	0.0543	
Ca	0.1177(0.1199)	
Mg	0.0723(0.0720)	
Mo		
P	0.0502(0.0500)	
Na	0.0013(0.0010)	
S	0.2045(0.1766)	
Si	<0.001(0.0004)	
Zn	0.0582(0.0552)	
Ti		
D874 Sulfated Ash	0.989(0.8497)	

(B)

Item #	1
ID	LEF 1
OS #	165805
SAF	10W/30
Base Oils	UCBO7
	UCBO4
VM	LZ7075F
Additives	
Amount	21.9%
ID	S010-0120-99-486
Description	
Detergent	SALIC / SALIG
Dispersant	
AO	
Ash Level	1.0
Phosphorous Level	0.05
Sulfur Level	0.20
Cummins M11	
093.010.01 (200 hrs) SRI	
EOT	
Engine No	34706224
Engine Run No	87
test stand	082
formulation	RM-0120990486-A-1-M11-1-SR-82
avg crosshd fnl (mg)	19.3
Standard Deviation (outlier screened)	19.11
av sludge fnl	7.6
delta filter plug fnl	197
total oil consumption, kg	5.2
TGA soot% at 150 hrs	5.2
avg bearing wt loss, mg	12.9
avg total unwtd demerits	119.823
TGC	39.54
TLC	8.5
avg top ring mass loss	86.7
avg 2nd ring mass loss	15.8
injector screw wt loss (mg)	40.2

(C)

		sample number	Cummins M11 EOT	Cummins M11 inj screw	MB OM 441LA Euro II (HMVE 350.04) EOT	Peugeot XUD11 PXB218 (HPXB 363.05) EOT	Mack T-10 with EGR (602.001.01) EOT
LEF 1	S010-0120-99-486			40.20			

(D)